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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Thu May 03 16:48:36 EDT 2007

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Reviewer Comments:

<210>      4

<211>      6223

<212>      DNA

<213>      crt gene


<400>      4


The <213> response is invalid.  Per 1.823 of Sequence Rules, the only valid <213> responses are:  "Artificial Sequence," "Unknown," or the Genus/species.  FYI:  if this is an Artificial Sequence, then "crt gene" would be an insufficient explanation (please explain the source of the genetic material in the <223> response).

Same type of error in sequences 5-16

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Validated By CRFValidator v 1.0.2

Application No:          10551508                    Version No:              1.0


                Input Set:


                Output Set:


                    Started:    2007-05-03 16:08:57.906
                   Finished:    2007-05-03 16:08:58.290
                    Elapsed:    0 hr(s) 0 min(s) 0 sec(s) 384 ms
            Total Warnings:     4
              Total Errors:     0
    No. of SeqIDs Defined:      18
       Actual SeqID Count:      18


ErrCode         Error Description

W  213          Artificial or Unknown found in <213>  in SEQ ID (1)

W  213          Artificial or Unknown found in <213>  in SEQ ID (2)

W  213          Artificial or Unknown found in <213>  in SEQ ID (17)

W  213          Artificial or Unknown found in <213>  in SEQ ID (18)

<210> 3
<211> 1454
<212> DNA
<213> Paracoccus haeundaesis

<400> 3

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<210>    4
<211>    6223
<212>    DNA
<213>    crt gene

<400>    4
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<213>      crtW gene

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           20                  25                  30

Ala Leu Trp Phe Leu Asp Ala Ala Ala His Pro Ile Leu Ala Ile Ala
         35                  40                  45

Asn Phe Leu Gly Leu Thr Trp Leu Ser Val Gly Leu Phe Phe Ile Ala
     50                  55                  60

His Asp Ala Met His Gly Ser Val Val Pro Gly Arg Pro Arg Gly Asn
 65                  70                  75                  80

Ala Ala Met Gly Gln Leu Val Leu Trp Leu Tyr Ala Gly Phe Ser Trp
                 85                  90                  95

Arg Lys Met Ile Val Lys His Met Ala His His Arg His Thr Gly Thr
             100                 105                 110

Asp Asp Asp Pro Asp Phe Asp His Gly Gly Pro Val Arg Trp Tyr Ala
         115                 120                 125

Arg Phe Ile Gly Thr Tyr Phe Gly Trp Arg Glu Gly Leu Leu Leu Pro
     130                 135                 140

Val Ile Val Thr Val Tyr Ala Leu Ile Leu Gly Asp Arg Trp Met Tyr
145                 150                 155                 160

Val Val Phe Trp Pro Leu Pro Ser Ile Leu Ala Ser Ile Gln Leu Phe

Val Phe Gly Thr Trp Leu Pro His Arg Pro Gly His Asp Ala Phe Pro
        180                185                190

Asp Arg His Asn Ala Arg Ser Ser Arg Ile Ser Asp Pro Val Ser Leu
        195                200                205

Leu Thr Cys Phe His Phe Gly Gly Tyr His His Glu His His Leu His
    210                215                220

Pro Thr Val Pro Trp Trp Arg Leu Pro Ser Thr Arg Thr Lys Gly Asp
225                230                235                240

Thr Ala


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<212>      DNA
<213>      crtZ gene

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<213>      crtZ amino acid

<400>      8
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Gly Trp His Lys Ser His His Glu Glu His Asp His Ala Leu Glu Lys
        35                40                45

Asn Asp Leu Tyr Gly Leu Val Phe Ala Val Ile Ala Thr Val Leu Phe
    50                  55                  60

Thr Val Gly Trp Ile Trp Ala Pro Val Leu Trp Trp Ile Ala Leu Gly
 65                  70                  75                  80

Met Thr Val Tyr Gly Leu Ile Tyr Phe Val Leu His Asp Gly Leu Val
                85                  90                  95

His Gln Arg Trp Pro Phe Arg Tyr Ile Pro Arg Lys Gly Tyr Ala Arg
                100                 105                 110

Arg Leu Tyr Gln Ala His Arg Leu His His Ala Val Glu Gly Arg Asp
        115                 120                 125

His Cys Val Ser Phe Gly Phe Ile Tyr Ala Pro Pro Val Asp Lys Leu
    130                 135                 140

Lys Gln Asp Leu Lys Thr Ser Gly Val Leu Arg Ala Glu Ala Gln Glu
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Arg Thr


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<211>      1161
<212>      DNA
<213>      crtY gene

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tcgggcgccg agatccgctg gaacagcgac atcgccctgc tggatgaaca gggggcgacg     360

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<210>      10
<211>      386
<212>      PRT
<213>      crtY amino acid

<400>      10
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 1               5                  10                  15

Ile Ala Leu Ala Leu Arg Ala Ala Arg Pro Asp Leu Arg Val Leu Leu
            20                  25                  30

Leu Asp His Ala Ala Gly Pro Ser Asp Gly His Thr Trp Ser Cys His
         35